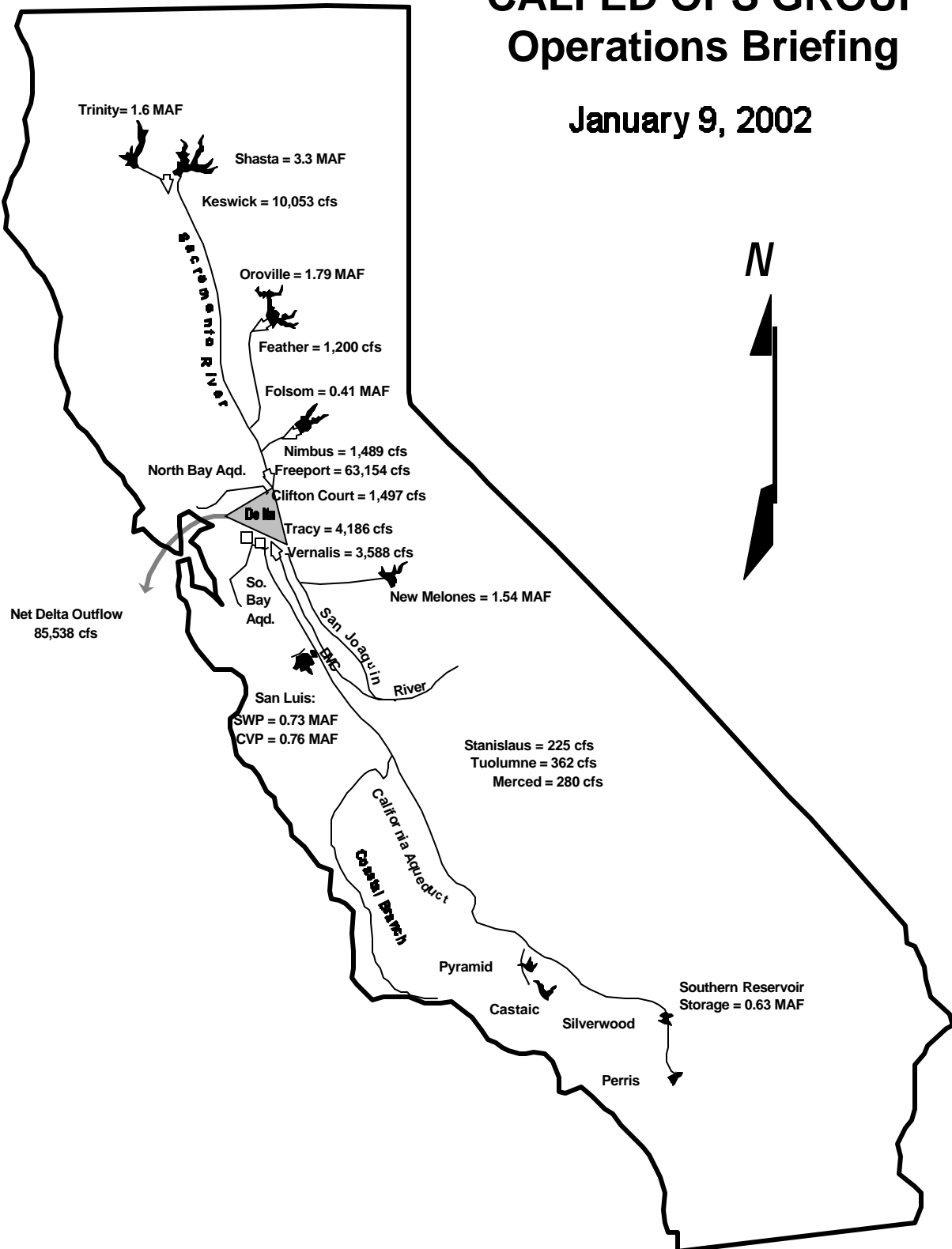


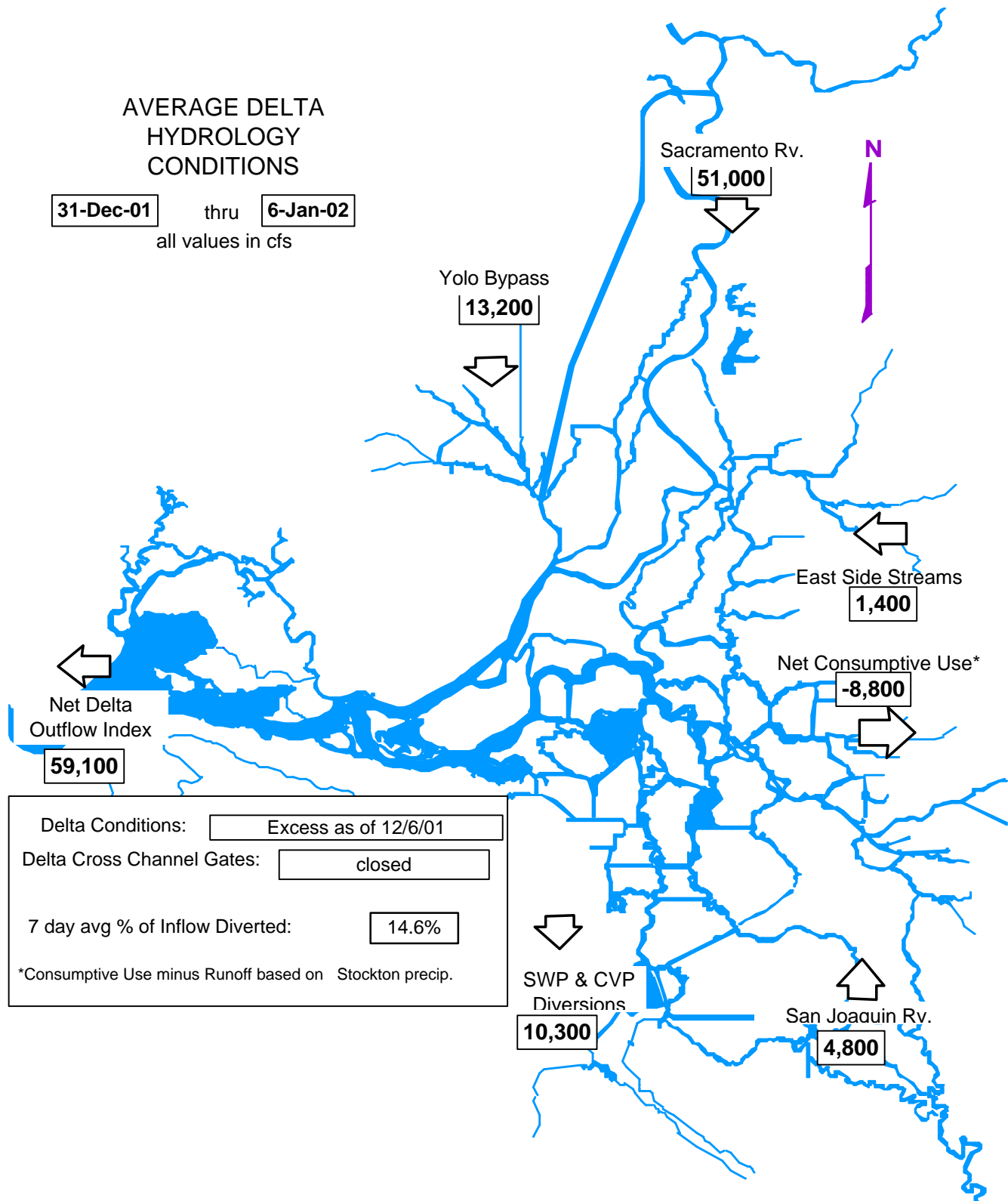
CALFED OPS GROUP Operations Briefing

January 9, 2002



AVERAGE DELTA HYDROLOGY CONDITIONS

31-Dec-01 thru **6-Jan-02**
all values in cfs



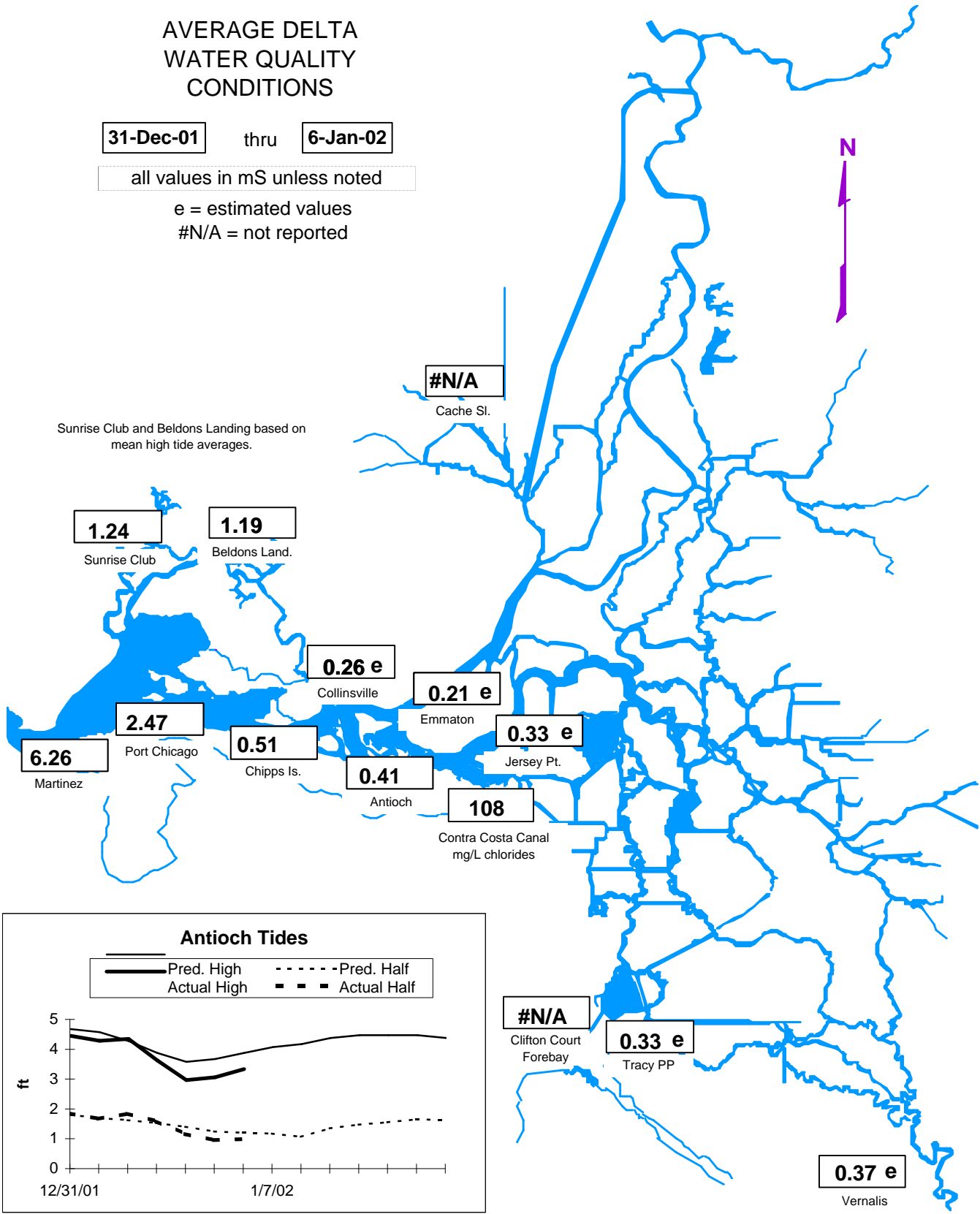
AVERAGE DELTA WATER QUALITY CONDITIONS

31-Dec-01 thru **6-Jan-02**

all values in mS unless noted

e = estimated values

#N/A = not reported



DRAFT

Bay-Delta Standards

Contained in D-1641

DRAFT

CRITERIA	Jan 02	Feb 02	Mar 02
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FLOW/OPERATIONAL

<ul style="list-style-type: none">• Fish and Wildlife<ul style="list-style-type: none">SWP/CVP Export LimitsExport/Inflow RatioMinimum Outflow - mon.<ul style="list-style-type: none">- 7 day ave.Striped Bass SurvivalSuisun MarshHabitat Protection Outflow, X2River Flows:<ul style="list-style-type: none">@ Rio Vista - min. mon. avg.<ul style="list-style-type: none">- 7 day average@ Vernalis: Base -min. mon. avg.<ul style="list-style-type: none">- 7 day averagePulse objectiveDelta Cross Channel Gates			
	65%	35%	35%
	4500 cfs		
	3500 cfs		
		7,100 - 29,200 cfs or X2 days (through June)	
		1420 (or 2280) cfs if X2 > 74 miles	
		1136 (or 1824) cfs if X2 > 74 miles	
	Nov.-Jan. may be closed up to a total of 45 days	Closed	

WATER QUALITY STANDARDS

<ul style="list-style-type: none"> Municipal and Industrial All Export Locations Contra Costa Canal 		250 mg/l Chlorides	
		Cl ≤ 150 mg/l for 175 days	
<ul style="list-style-type: none"> Agriculture Western/Interior Delta Southern Delta 			
		30 day running avg EC ≤ 1.0 mS	
<ul style="list-style-type: none"> Fish and Wildlife San Joaquin River Salinity Suisun Marsh Salinity 			
	12.5		8.0 mhtEC

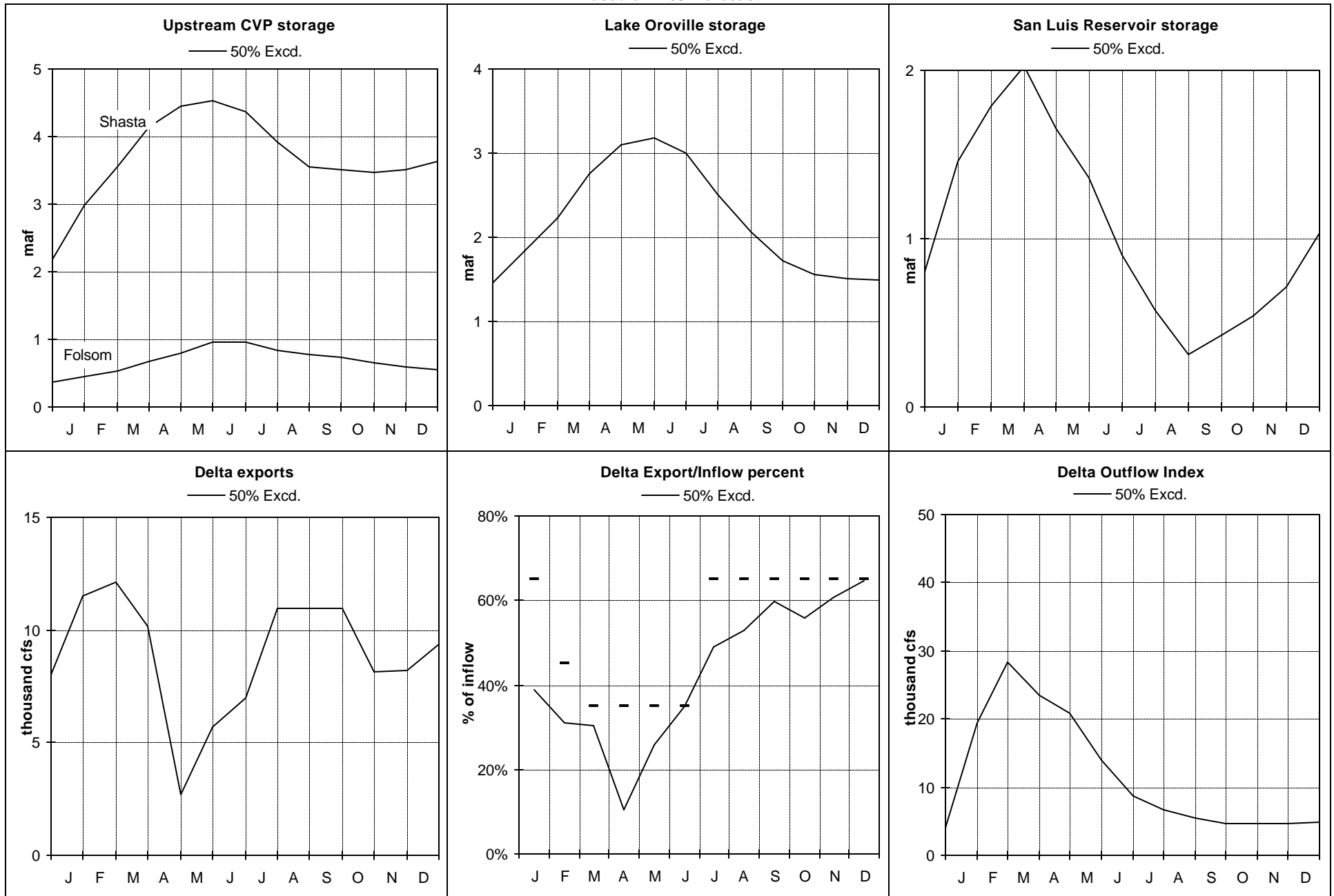
Water Year Classification: Below Normal (Preliminary forecast, 12/6/2001)

SRI (40-30-30 @ 50%) = 7.0 MAF

SJV (60-20-20 @ 75%) = 2.1 MAF

SWP & CVP WY 2001-2002 Forecasted Operations.

Based on 12/07 forecast



Flows are monthly averages.

WY 2001/2002 EWA Accounting Summary
Based on November 1 -- 50% Exceedence Hydrology

EWA NOD and SOD Storage																	
1	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NOD ⁰	45					40		55									140
SOD																	

EWA Asset Acquisition in SWP San Luis ¹																	
2	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
E/I Relaxation			3														3
EWA share of SWP gain																	0
Project Pumping to reduce EWA debt							65										65
JPOD using excess flows																	0
JPOD using excess NOD storage																	0
Xfer NOD purchases - Sacramento River ²											24 ³	24 ³	24 ³				72
Xfer NOD purchases - San Joaquin River ²		12 ⁴	10 ⁴														23
SOD SWP surface purchases		11 ⁵	9 ⁵	12 ⁵						150 ⁶							182
Groundwater pumping SOD																	0
Exchange from CVP to SWP in SL																	0
Total Monthly EWA Assets		23	23	12	0	0	65	0	0	150	24	24	24	0	0	0	345

EWA Asset Acquisition in CVP San Luis																	
3	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
E/I Relaxation																	0
Project Pumping to reduce EWA debt																	0
JPOD using excess flows																	0
JPOD using excess NOD storage																	0
Xfer NOD purchases - Sacramento River ²											5 ⁷	1 ⁷	1 ⁷	1 ⁷	1 ⁷		7
Xfer NOD purchases - San Joaquin River ²																	0
SOD federal surface purchases																	0
Groundwater pumping																	0
Exchange from SWP to CVP in SL																	0
Total Monthly EWA Assets	0	0	0	0	0	0	0	0	0	0	5	1	1	1	1	0	7

EWA Expenditures at the Export Pumps																	
4	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
SWP export cuts					-66 ⁸	-50	-50	-50	-100	-50							-366
CVP export cuts																	0
Total Expenditures	0	0	0	0	-66	-50	-50	-50	-100	-50	0	0	0	0	0	0	-366

EWA Monthly Incremental Storage Changes																	
5	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
SWP in SL (without Source Shift)	7	23	23	12	-66	-50	15	-50	-100	100	24	24	24	0	0	0	-14
CVP in SL	0	0	0	0	0	0	0	0	0	0	5	1	1	1	1	0	7
NOD Storage	45	-14	-11	0	0	40	0	55	0	0	-34	-29	-29	-1	-1	0	22
Groundwater SOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Incremental Storage Changes	52	9	11	12	-66	-10	15	5	-100	100	-5	-4	-4	0	0	0	14

EWA Storage Balance at Various Sites																	
6	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
SWP in SL (without Source Shift)	7	31	53	65	-1	-51	-36	-86	-186	-87	-63	-38	-14	-14	-14	-14	
CVP SL	0	0	0	0	0	0	0	0	0	0	5	5	6	6	7	7	
NOD Storage	45	31	20	20	20	60	60	115	115	115	81	52	23	23	22	22	
Groundwater SOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
EWA Asset Balance	52	62	73	85	19	9	24	29	-71	28	23	19	15	15	14	14	

San Luis Reservoir Storage Conditions																	
7	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Total Storage (base case)		714	902	1320	1753	1944	2054	1832	1466	858	492	186	279	592			
Encroachment																	
Total Storage (EWA case)		745	955	1386	1752	1893	2018	1746	1280	771	434	153	270	584			
MWD Source Shifting	29	-10	-10	-9					25	25				-25	-25		
Storage (with MWD source shifting)⁹		764	964	1386	1752	1893	2018	1746	1305	821	484	203	320	609			

⁰ 2001 NOD Storage = 20(PCWA) + 25(MID). 2002 NOD Storage = 85(YCWA) + 10(SGA). Feb is 30(YCWA) + 10(SGA).

¹ Aqueduct conveyance and evaporation losses are not included.

² A 15% carriage loss applies to water transfers from the Sacramento River (i.e.: YCWA and OWID); a 10% conveyance loss applies to water transfers from the San Joaquin River (i.e.: MID).

³ YCWA Transfer ⁴ MID Transfer

⁵ SOD 2001 SWP post lowpoint deliveries = 15(Semiotropic/Tulare ID) + 5(Cawelo) + 12(Santa Clara)

⁶ Water acquired from KCWA Interests

⁷ SGA Transfer

⁸ An estimated total of 65 TAF has been expended for the 1/5-1/9 curtailment.

⁹ Based upon the 12/6/01 USBR's 50% exceedence EWA forecast study.